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L# ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

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TI Fire-fighting aqueous emulsions consisting of water-insoluble fluorinated copolymers, ***surfactants***, fluorinated ***surfactants***, and water-miscible solvents

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PI EP 765676 A1 19970402 EP 1996-401822 19960826
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FR 2739295 A1 19970404 FR 1995-11385 19950928
JP 09124884 A2 19970513 JP 1996-244969 19960917
AU 9665863 A1 19970410 AU 1996-65863 19960926
CA 2186773 AA 19970329 CA 1996-2186773 19960927

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AB Fire-fighting emulsions consist of aq. dispersions contg.: (1) 0.5-10 wt.% of a water-insol. fluorinated copolymer prepd. from a monomer contg. a perfluorinated chain, a monomer contg. an ionic or ionizable chain, and/or a monomer contg. a nonionic chain, (2) 1-20 wt.% of a C5-18-branched or linear alkane ***surfactant***, (3) 0.5-10 wt.% of a fluorinated ***surfactant*** which, when present in aq. soln. at 1 g/L concn., gives rise to a surface tension at 20.degree. of 25 mN/m, and (4) 5-50 wt.% of a water-miscible solvent. The fluorinated copolymer is of general formula $-[M1]_x[M2]_y[M3]_z$, in which M1 is a C5-20- ***perfluoroalkyl*** acrylate or methacrylate; M2 is an acrylic, methacrylic, or vinylic monomer with an ionizable or hydrophilic group; M3 is an acrylic, methacrylic, or vinylic monomer with a nonionic (esp. hydrophobic) group; and $x = 50-95$, $y = 1-25$, and $z = 0-10$ (with an M1-M2 molar ratio of 1-10:1). A no. of ***surfactants*** are possible for the formulation, including ***betaines***, N,N-bis(2-carboxyethyl)amines, 2-alkyl(1-hydroxyethyl)imidazolines, quaternary ammonium chlorides, polyoxyalkylene monoethers, trialkylamine oxides, alkylbenzenesulfonic acids, etc.

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DT Patent

LA French

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